iCOMFORT

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# USER MANUAL
# READER iLOCK

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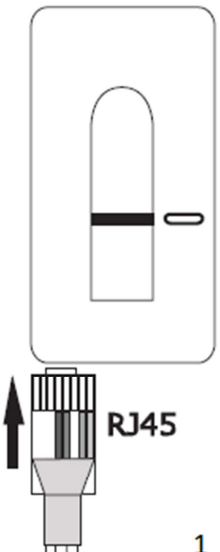
# I. BASIC KNOWLEDGE

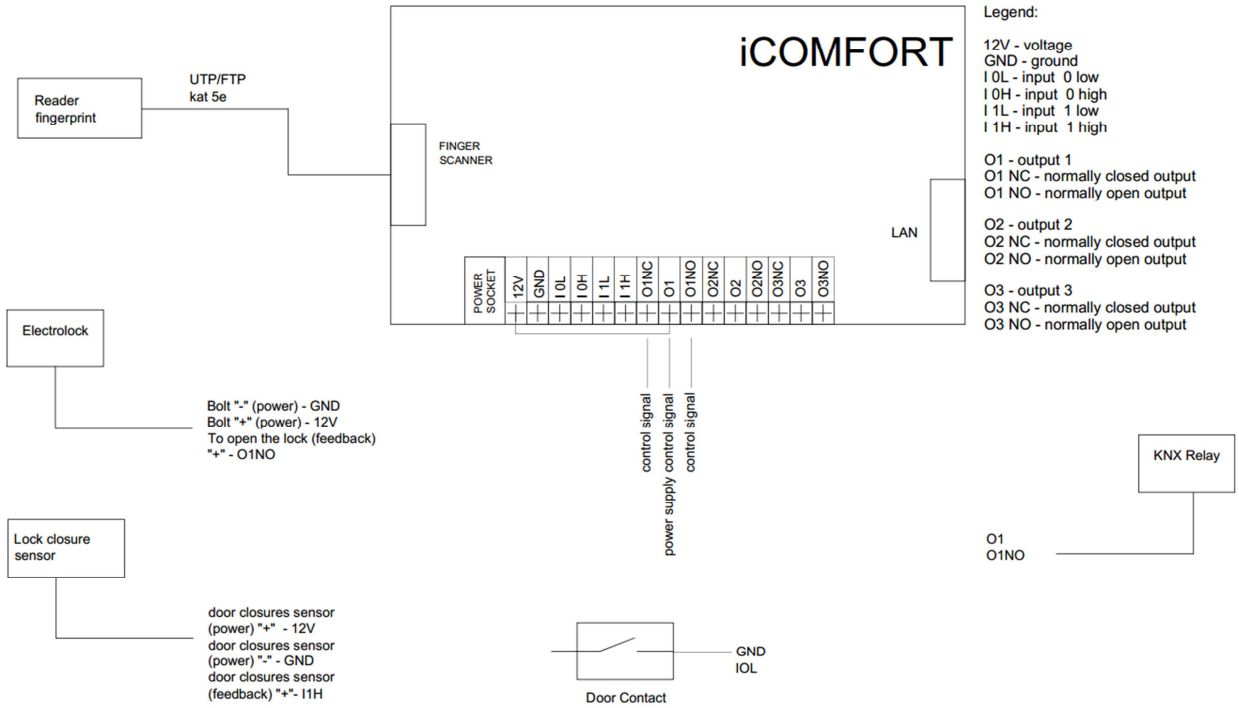
## 1. Connecting the reader ekey module FS IN




| Technical data ekey module IN | | Unit | Value |
|---|---|---|---|
| Power supply | | V AC | 8-24 |
| | | V DC | 8-30 |
| Power input | | W | approx. 2 |
| Temperature range | | °C | -40 to +85 |
| Memory | | Fingerpts | 800/2000 |
| Security | | FAR | 1x $10^{-6}$ |
| | | FRR | 1.4x $10^{-2}$ |
| Protection class | | IP | 54 (front) |
| Speed | | sec | 1-4 |
| Communication | | | RS485 |
| Baudrate | | bd | 9600-115200 |
| HMI | | | 2 three colour LEDs |
| Sensor | | | Atmel |
| Life cycle | Fingerprint scans | | approx. 4 mill. |

| number | description |
|---|---|
| 1 | AC1 |
| 2 | AC2 |
| 3 | CONVERTER USB 2 (RS485-A) |
| 4 | CONVERTER USB 1 (RS485-B) |

## 2. Connecting the reades and electrolock



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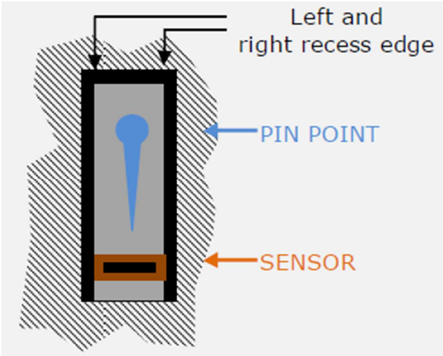
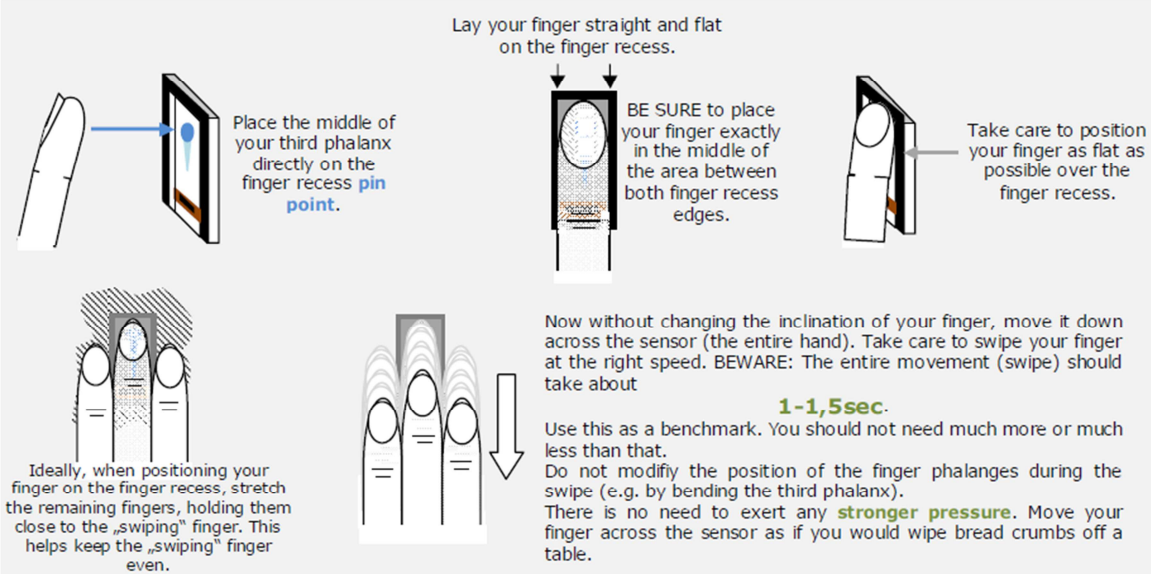
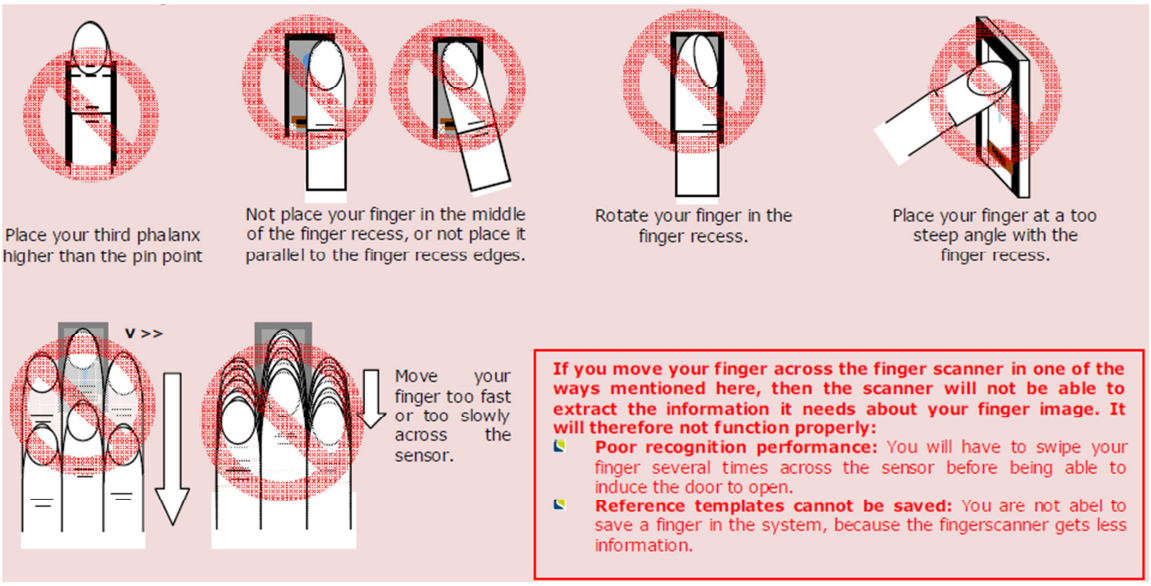
## 3. Opening correctly the finger scanner





Lay your finger straight and flat
on the finger recess.
Place the middle of your third phalanx directly on the finger recess pin point.
BE SURE to place your finger exactly in the middle of the area between both finger recess edges.
Take care to position your finger as flat as possible over the finger recess.
Ideally, when positioning your finger on the finger recess, stretch the remaining fingers, holding them close to the „swiping" finger. This helps keep the „swiping" finger even.
Now without changing the inclination of your finger, move it down across the sensor (the entire hand). Take care to swipe your finger at the right speed. BEWARE: The entire movement (swipe) should take about
1-1,5sec.
Use this as a benchmark. You should not need much more or much less than that.
Do not modifiy the position of the finger phalanges during the swipe (e.g. by bending the third phalanx).
There is no need to exert any stronger pressure. Move your finger across the sensor as if you would wipe bread crumbs off a table.

## 4. What you should not do


Place your third phalanx higher than the pin point
Not place your finger in the middle of the finger recess, or not place it parallel to the finger recess edges.
Rotate your finger in the finger recess.
Place your finger at a too steep angle with the finger recess.
v >>
Move your finger too fast or too slowly across the sensor.
If you move your finger across the finger scanner in one of the ways mentioned here, then the scanner will not be able to extract the information it needs about your finger image. It will therefore not function properly:
Poor recognition performance: You will have to swipe your finger several times across the sensor before being able to induce the door to open.
Reference templates cannot be saved: You are not abel to save a finger in the system, because the fingerscanner gets less information.

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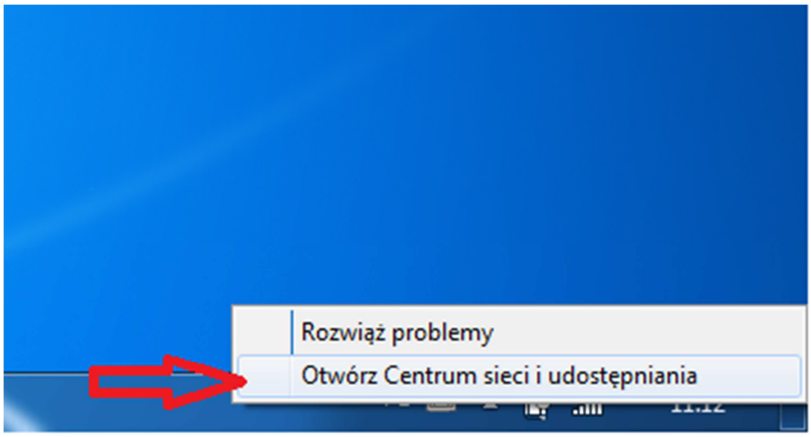
## II. DEVICE KONFIGURATION ADDRES

### 1. Detection of device in the network

- Connect the device to the router (LAN input) via cable FTP/UTP category 5e
- Check the IP address of the router

- Right-click on the icon internet located in the lower right corner of the screen

- click ‘Open the Network and Sharing Center’



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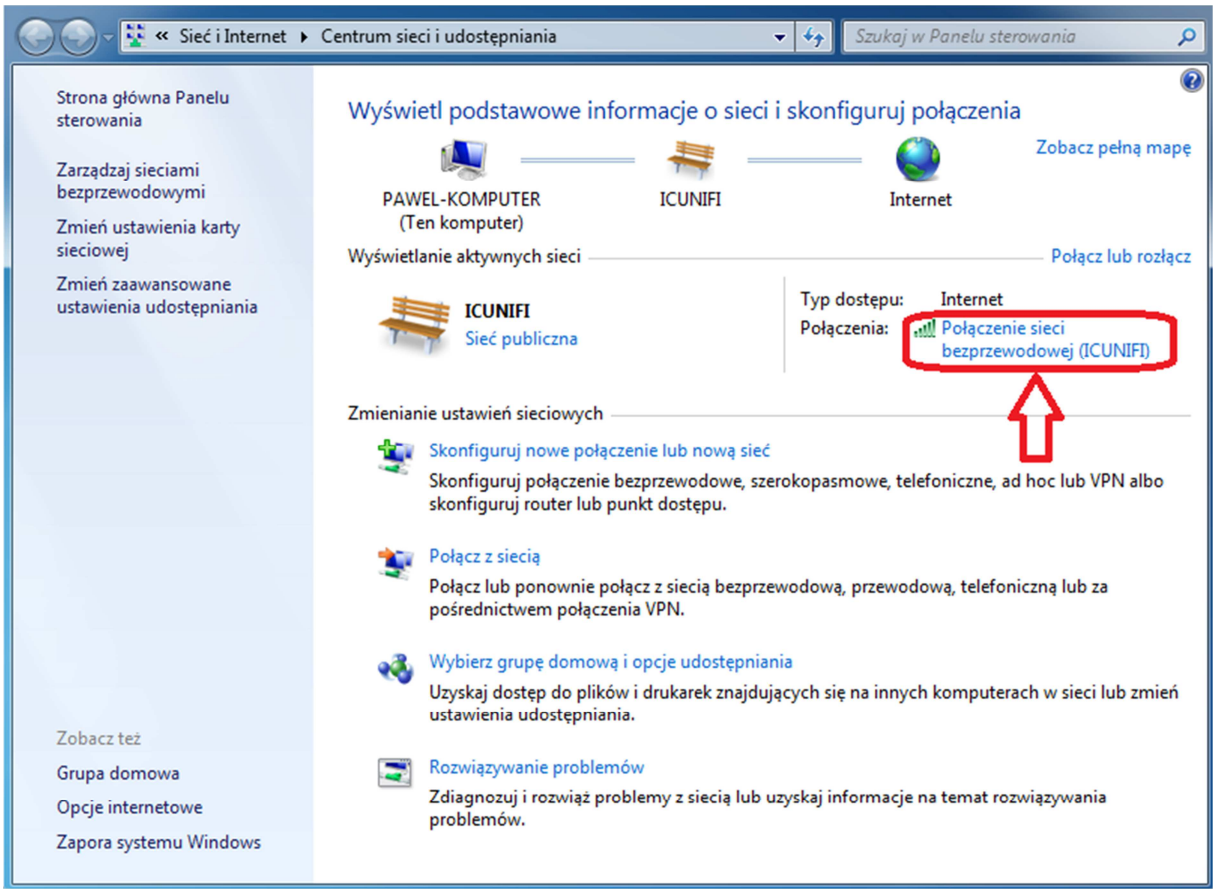
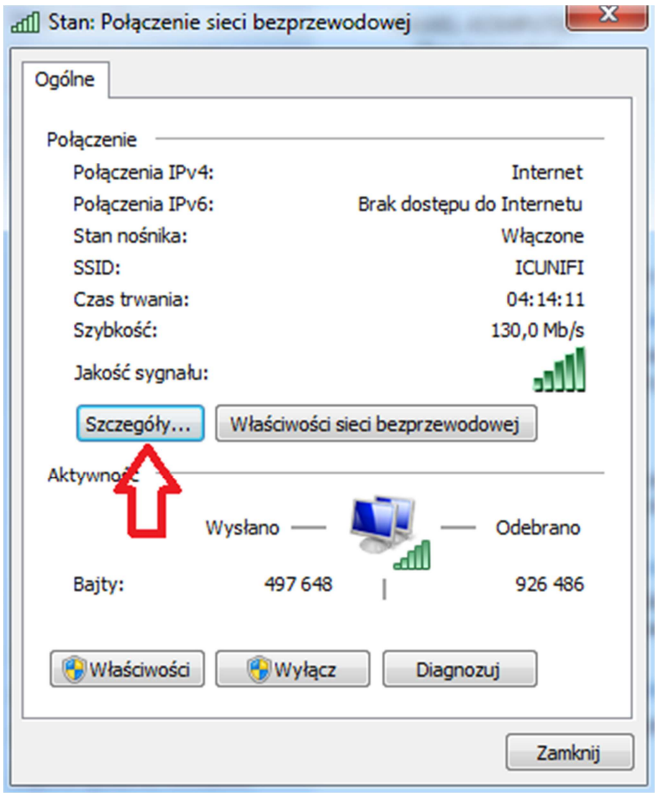
- Click on the name of your Internet connection


« Sieć i Internet ▸ Centrum sieci i udostępniania
Szukaj w Panelu sterowania
Strona główna Panelu sterowania
Zarządzaj sieciami bezprzewodowymi
Zmień ustawienia karty sieciowej
Zmień zaawansowane ustawienia udostępniania
Wyświetl podstawowe informacje o sieci i skonfiguruj połączenia
Zobacz pełną mapę
PAWEL-KOMPUTER (Ten komputer)
ICUNIFI
Internet
Wyświetlanie aktywnych sieci
Połącz lub rozłącz
ICUNIFI
Sieć publiczna
Typ dostępu: Internet
Połączenia: Połączenie sieci bezprzewodowej (ICUNIFI)
Zmienianie ustawień sieciowych
Skonfiguruj nowe połączenie lub nową sieć
Skonfiguruj połączenie bezprzewodowe, szerokopasmowe, telefoniczne, ad hoc lub VPN albo skonfiguruj router lub punkt dostępu.
Połącz z siecią
Połącz lub ponownie połącz z siecią bezprzewodową, przewodową, telefoniczną lub za pośrednictwem połączenia VPN.
Wybierz grupę domową i opcje udostępniania
Uzyskaj dostęp do plików i drukarek znajdujących się na innych komputerach w sieci lub zmień ustawienia udostępniania.
Rozwiązywanie problemów
Zdiagnozuj i rozwiąż problemy z siecią lub uzyskaj informacje na temat rozwiązywania problemów.
Zobacz też
Grupa domowa
Opcje internetowe
Zapora systemu Windows

- click on the 'Details ...'



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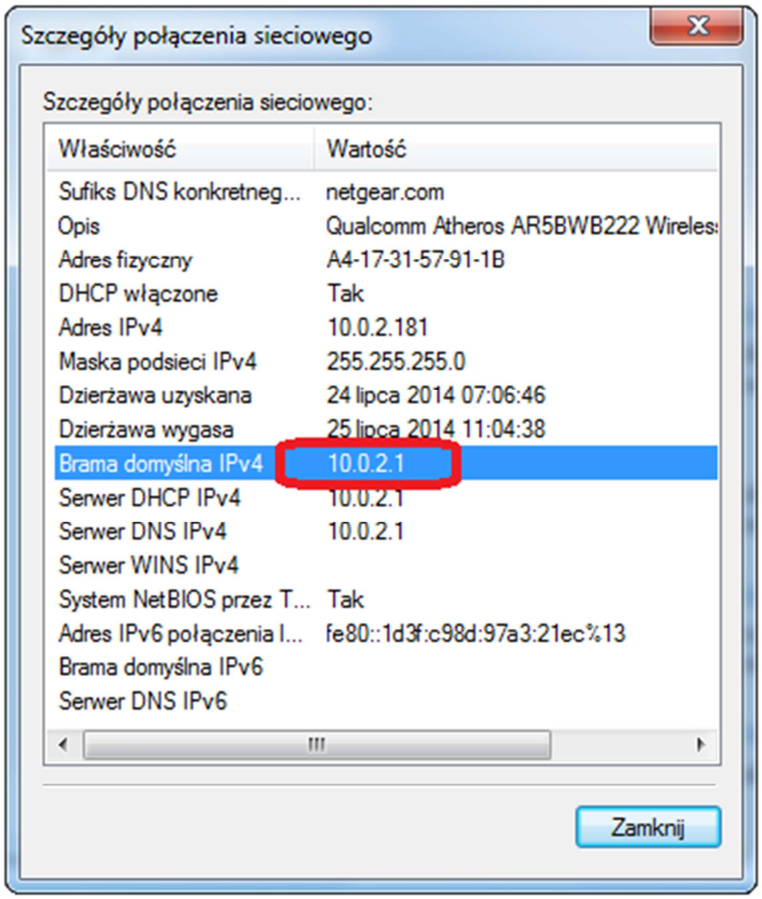
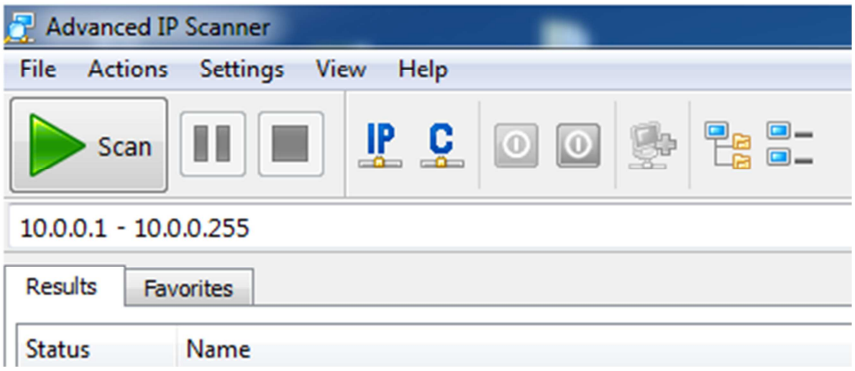
- read and remember the address shown on the name 'IPv4 Default Gateway', this is the IP address of the router




- Run the program to scan the local network such as Advanced IP Scaner (you can download it by going to the website www.advanced-ip-scanner.com and clicking the 'Download')
- Set the appropriate address range scanning.
  The start address is the IP address of the router, and at the end is the IP address of the router with the last number equal to 255 (x.x.x.255). Then run the scan by clicking on the 'Scan'.



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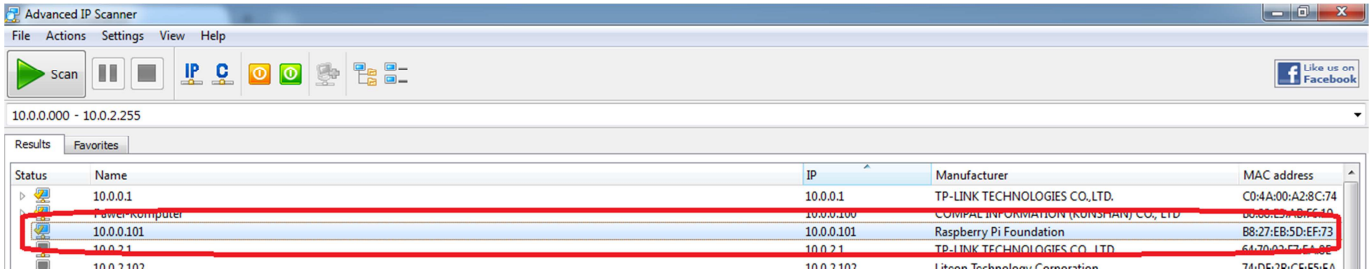
- The program should detect a network device named 'Raspberry Pi Foundation', remember its IP address.


Advanced IP Scanner
File Actions Settings View Help
Scan
10.0.0.000 - 10.0.2.255
Results Favorites
Status Name IP Manufacturer MAC address
10.0.0.1 10.0.0.1 TP-LINK TECHNOLOGIES CO.,LTD. C0:4A:00:A2:8C:74
10.0.0.101 10.0.0.101 Raspberry Pi Foundation B8:27:EB:5D:EF:73

**2. Set the address on the device.**

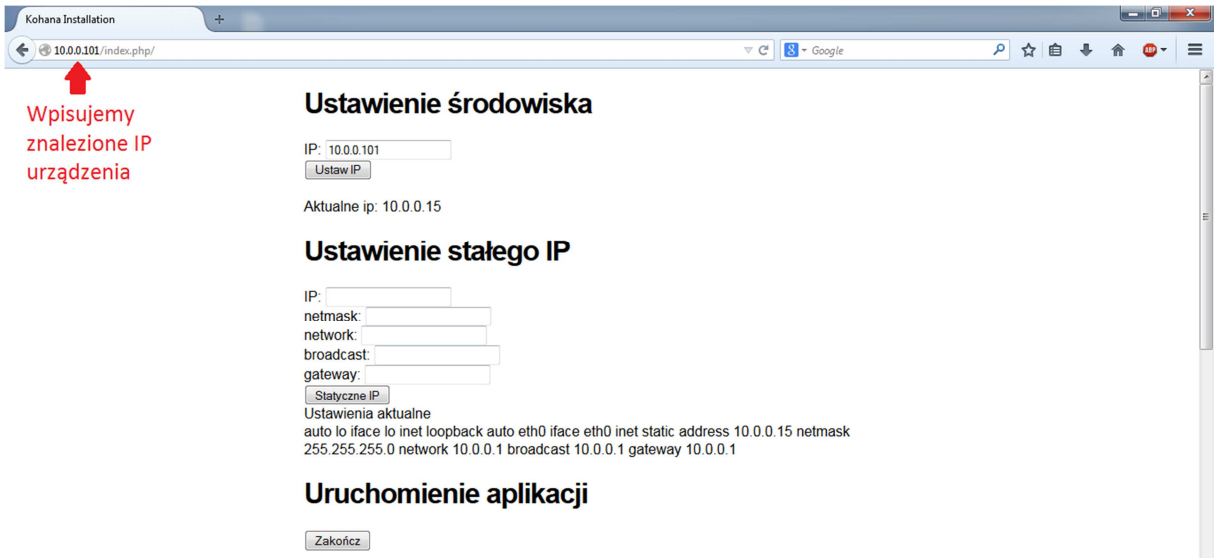
- Enter in the web browser memorized the IP address of the device.
- To change the IP address, enter the new address in the 'Setting the environment> IP' and then confirm by clicking on the 'Set IP'. New IP should be displayed below the button.
- Then fill in all the data in the 'Setting a fixed IP':

  IP – new IP address (e.g. 10.0.0.15)

  Netmask – e.g. 255.255.255.0

  Network, Broadcast, Gateway – address of the router (e.g. 192.168.0.1)

  After completing confirm by clicking the 'Static IP'.
- Click on ‘Uruchomienie aplikacji->Zakończ’
- Restart device by disconnecting it from the power supply for a while.



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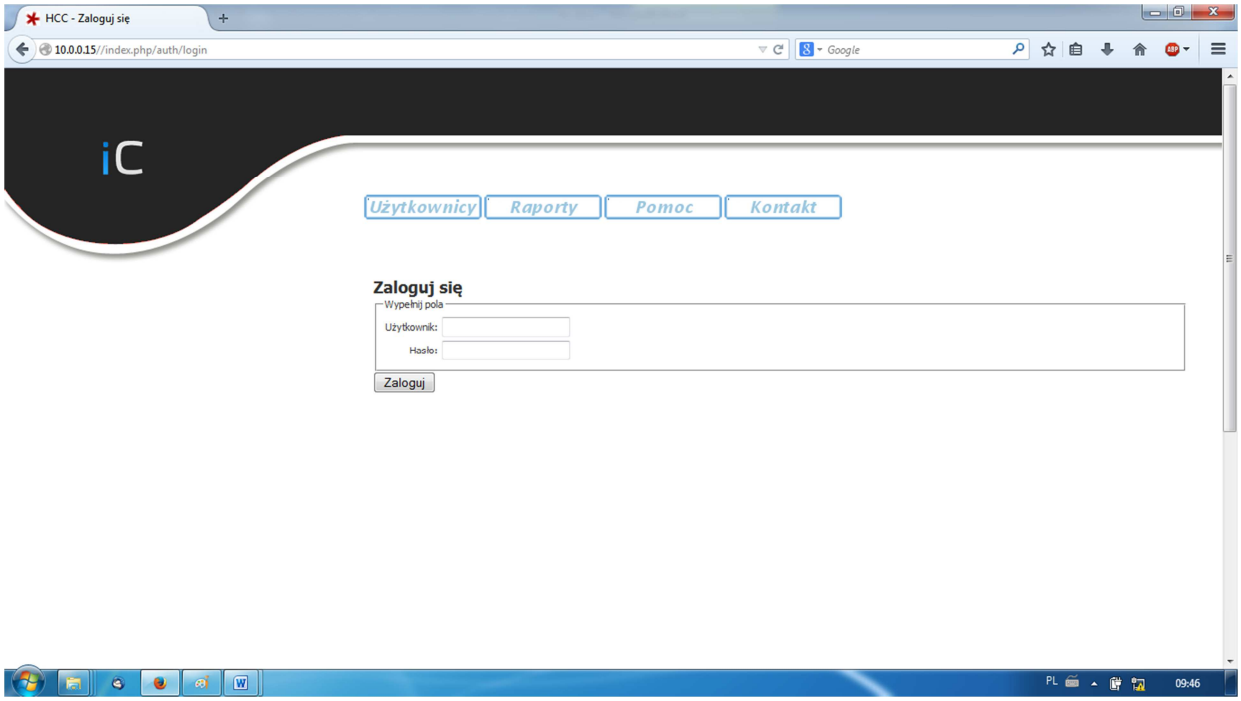
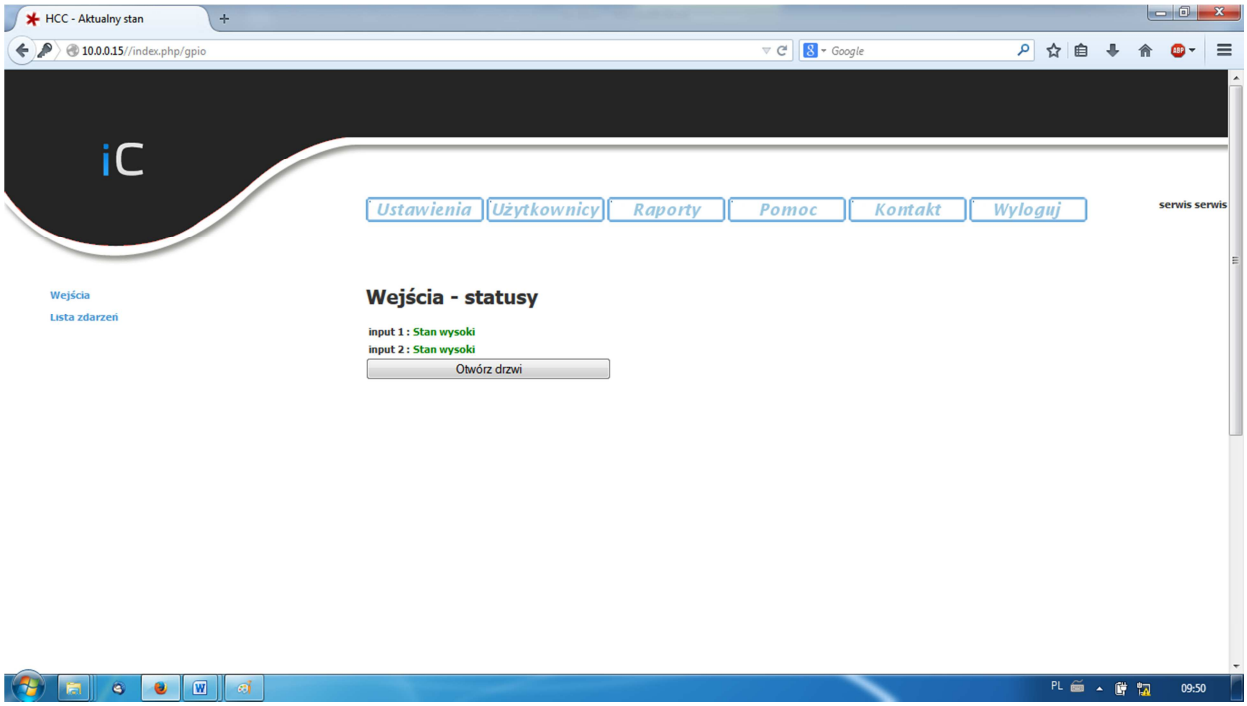
## III. CHANGE DATA FROM INTERNET BROWSER

If the computer is in the same LAN as the device iLOCK you can modify device settings, add users, etc. via a web browser.
To do this in a browser enter the current IP address of the device and click 'Enter'. You will see the login page.




After logged in you have full access to the device options (functionality is analogical to under described program ICOMFORT iLOCK).



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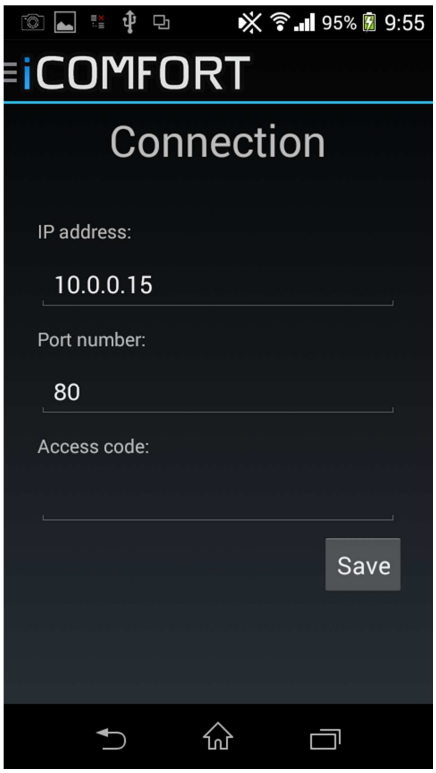
## IV. MAINTENANCE PROGRAM iCOMFORT iLOCK

### 1. Configuring the connection

When you first start you must configure the connection using the following data:

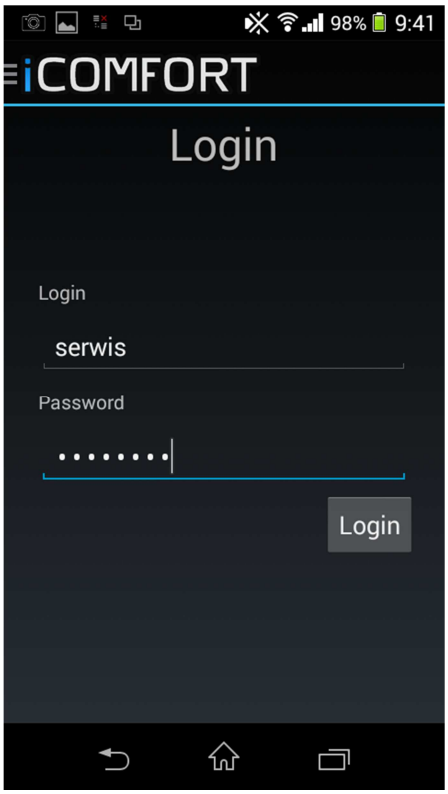
IP address: set earlier address the central
Port number: 80




### 2. Login

Once the connection appears the login window, log in using the following data:

Login: serwis
Password: 12!@qwQW



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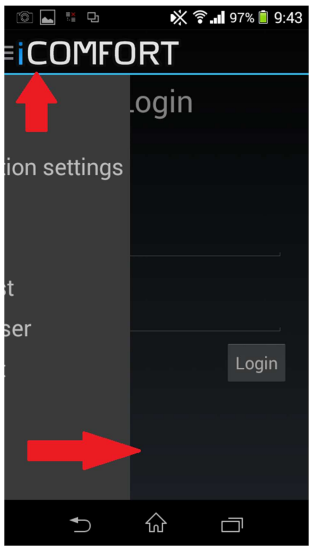
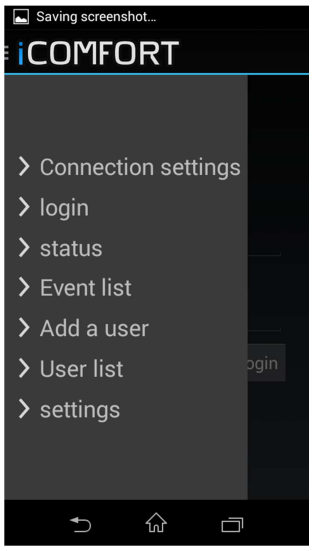
### 3. Menu

Menu open by sliding your finger to the right, starting from the left edge of the screen or by using the button in the upper left corner of the screen.



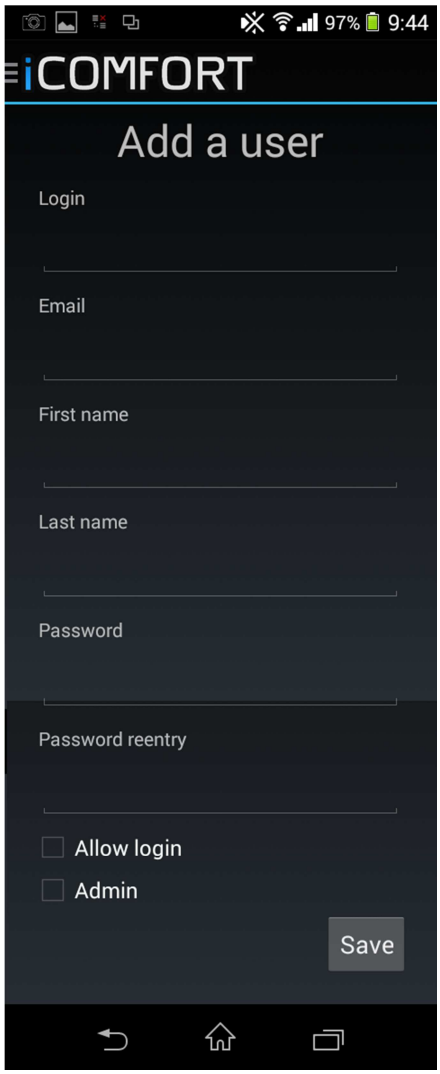

### 4. Add a user

In the window 'Add User' you should enter all the data and choose the access level of the user.

Allow login – allows you to log on to the program, but without access to the 'add user', 'List' and 'Settings'.

Admin – allows access to all features of the program.

**Warning!**
The password must be 8 characters, including numbers and letters.



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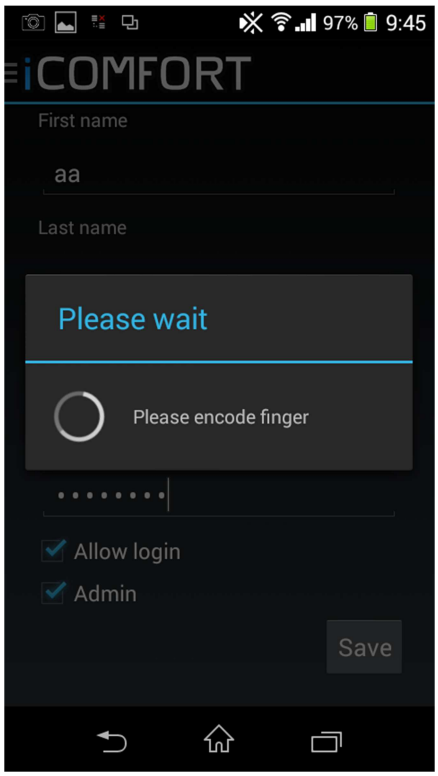
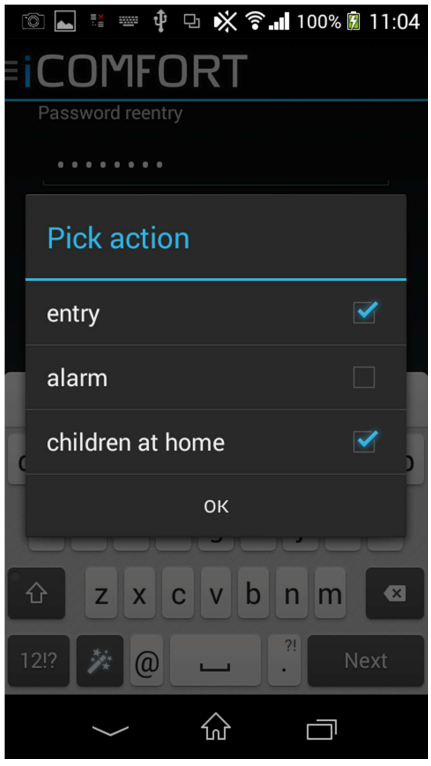
When you click 'Save' the screen shows 'Please encode finger' - in this time you must swipe your finger over the reader.




Then you must choose a 'pick action' and click 'OK'.



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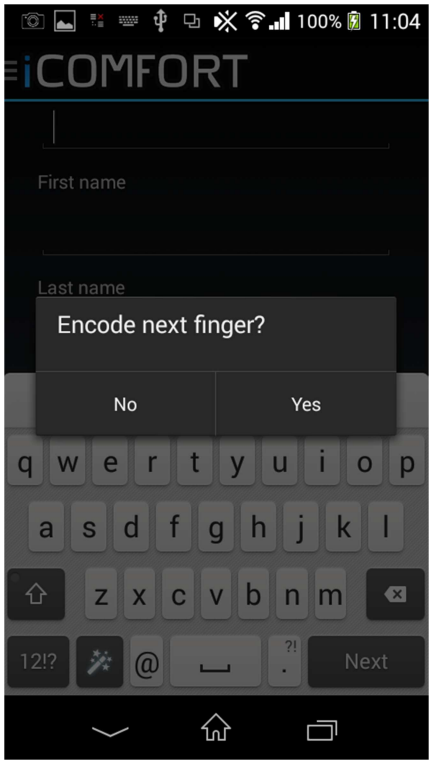
After coding the first finger program ask 'Encode next finger?'. Encoding next fingers looks analogous to the first. Each user can encode 10 fingers.

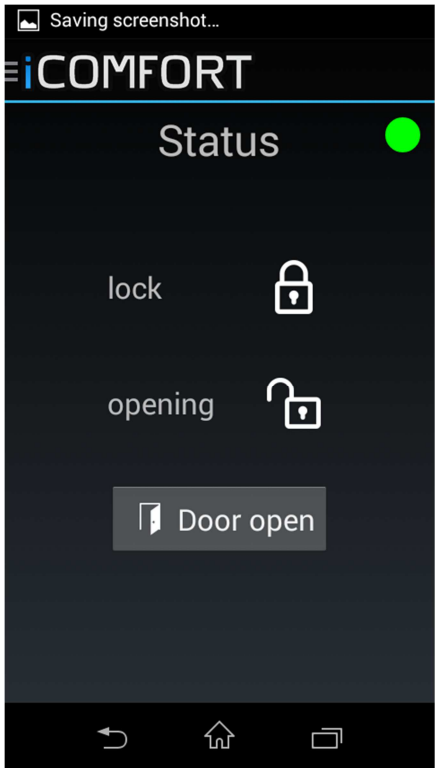



Data username, password, identified the fingers and the level of access can be modified at any time in the 'User list'.

**Warning!**
**When you add a user with Admin and Allow login access level, you should delete user 'serwis' by security reason.**

## 5. Status

Entering the options 'Status' we preview the outputs. Closed padlock symbolizes a closed system (e.g. closed lock) and open - circuit open (e.g. open a door).




The names of the outputs can be freely modified by clicking on it and entering a new name.

On the screen is a button 'Open door', which we can activate a relay selected in the 'Output names.'

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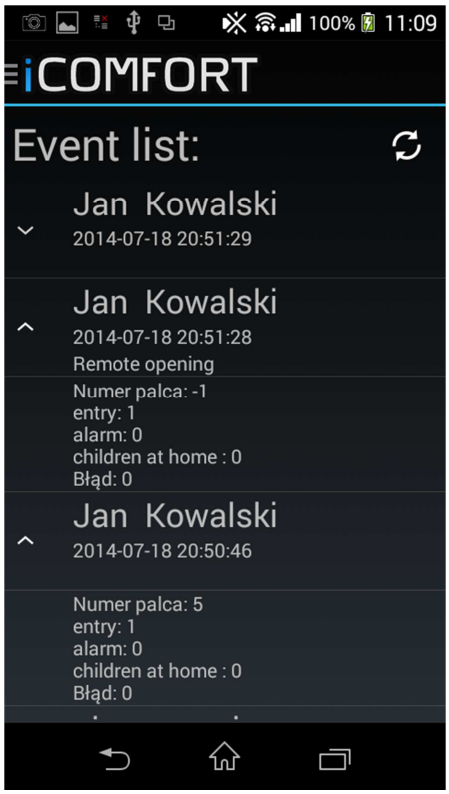
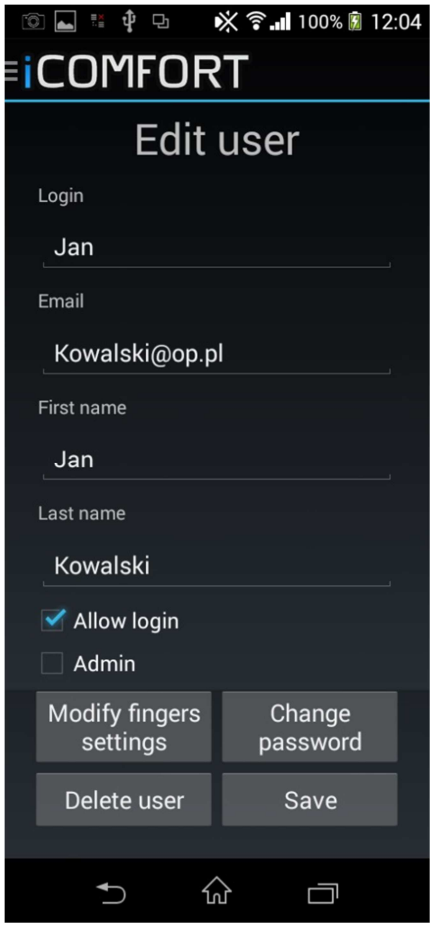


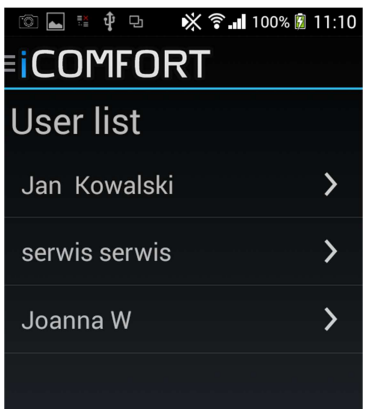

## 6. Event list:

In the ‘event list’ we have access to the history of the device.
We see who used the device, whether it was open remote or open using a finger. We can also chceck number of used finger (when it was open remote the number is '-1'). If the relay has been activated is displayed value '1' if not - value '0'.

## 7. User list

Here are all users of the device. To view details, click on the user. In the window that pops up, we can perform four actions (buttons):
- Modify fingers settings -> we can add new identified fingers and change the relays assigned to the finger (detailed description in section 8)
- Delete User -> is used to delete a user account
- Change password -> when you click this button, the program will ask for a new password
- Save -> saves the modified data



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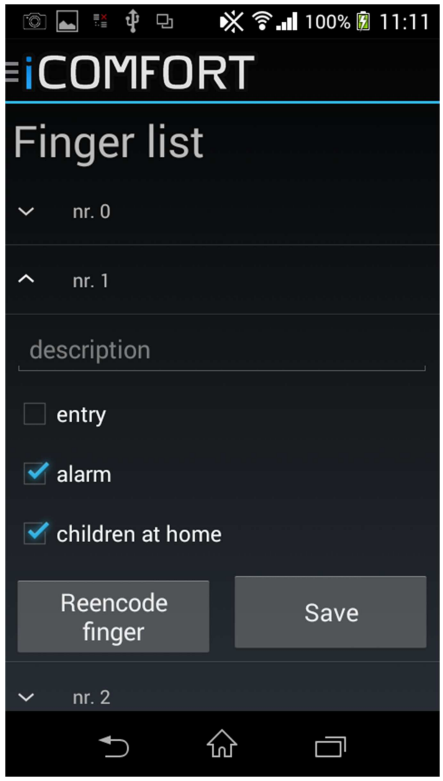
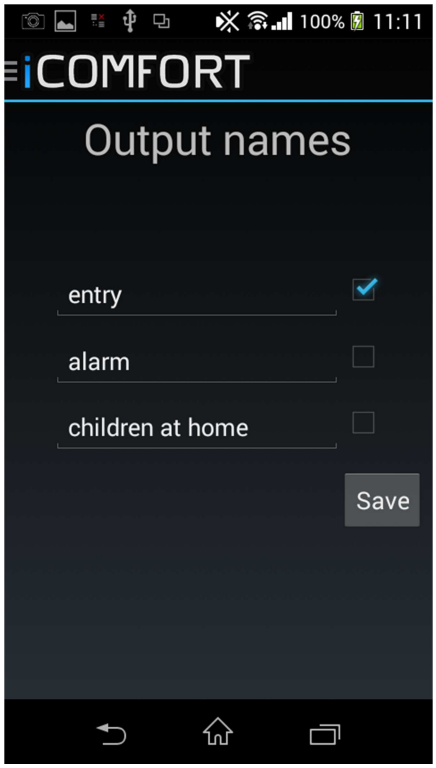
## 8. Finger list

The ability to modify the user's finger is in the 'Edit User-> Modify fingers settings'. When you click on the button, you go to the 'finger list', in which we have access to the encode and modify 10 fingers (numbered from 0 to 9). Clicking on the number of the finger open options, where you can choose to activated relays and encoding finger (finger encoding is analogous like during creating a new user).
After finite modifications, click 'Save'.




## 9. Output names

In the 'Output names' you can change the description of the relay, to do this, click on old name and enter a new.
You can also change the relay, which you control (from the iLock application level, you can control only one).



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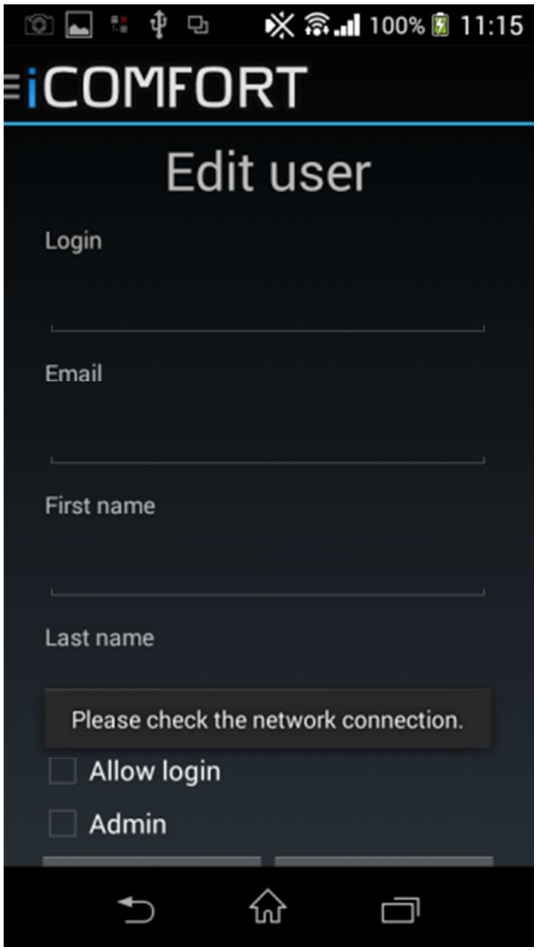
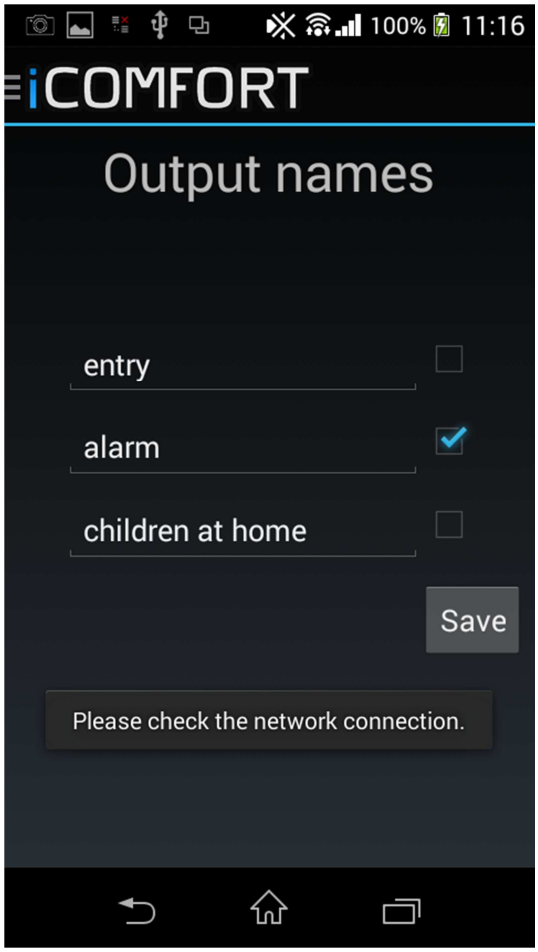
## 10. Possible errors

- A user with no admin access level

If user which have only login access level try come into options 'add user', 'user list' or 'Output names' - the program reports an error: 'Please check the internet connection.'. When the user tries modify something despite the error, the program may crash - then need completely close it and start again.



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- Create a new user

If during create a new user pops up an error 'Error during registration of a user: Unknown error' - it is caused by introduction incorrect data (e.g. invalid email address). You should check all data again and find the error.